

Ser. No. 10/528,506
Appl. of Masanori OGAWA, et al.
And in response to OA dated April 3, 2007
Atty Dkt. 2710/74093

Listing of claims:

Claim 1 (currently amended): An engineering plastic cardboard, consisting of a core member and covering member(s) covering one or both side(s) of said core member, wherein at least said core member has a good heat resistance and moldability and can be easily manufactured into a core member having a complex shape and is made of a polymer alloy of an engineering plastic and a thermoplastic resin or a polymer alloy of said engineering plastic, said thermoplastic and a rubbery material, said engineering plastic being of one or more kind(s) of engineering plastic(s) selected from a group of crystalline polyester, stereoregular polyethylene, a polymer alloy of engineering plastic and thermoplastic resin, or a polymer alloy of said engineering plastic, said thermoplastic resin, and a rubber-like material, said engineering plastic being of one or more kinds(s) of engineering plastic(s) selected from a group of polyamide(PA), polyester(PE), polyacetal(POM), polycarbonate(PC), polyethylene terephthalate(PET), polybutylene terephthalate(PBT), polysulfone(PSF), polyethersulfone(PES), polyphenylene ether(PPE), modified polyphenylene ether(Modified PPE), polyphenylene sulfide(PPS), polyarylate(PAR), polyether-etherketone(PEEK), polyamideimide(PAI), polyimide(PI), polyetherimide(PEI), polyaminobismaleimide, methylpentene copolymer(TPX), crystalline polyester, and stereoregular polyethylene and, wherein said thermoplastic resin is of one or more kind(s) of thermoplastic resin(s) selected from a group of polystyrene, polyamide and polypropylene.

Claim 2 (currently amended): An engineering plastic cardboard in accordance with Claim 1, wherein said rubber-like material is one or more kind(s) selected from the group of synthetic rubber, acrylic rubber, butyl rubber, silicone rubber, urethane rubber, fluoride type rubber, polysulfide type rubber, graft modified rubber, butadiene rubber, isoprene rubber, chloroprene rubber, polyisobutylene rubber, polybutene rubber, isobutene-isoprene rubber, acrylate-butadiene rubber, styrene-butadiene rubber, acrylonitrile-butadiene rubber, pyridine-butadiene rubber, styrene-isoprene

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rubber, acrylonitrile-chloroprene rubber, styrene-chloroprene rubber, natural rubber, a styrenic elastomer, styrene-butadiene-styrene block copolymer(SBS), a styrene-isoprene-styrene block copolymer (SIS), α -methylstyrene-butadiene- α -methylstyrene block copolymer (α -MeS-Bd-Me.S), α -methylstyrene-isoprene- α -methylstyrene block copolymer, styrene-hydrogenated polyolefin-styrene block copolymer (SEBS,SEPS), polyolefinic elastomer, polyurethane group elastomer, polyester group elastomer, and polyamide group elastomer engineering plastic is of one or more kind(s) of plastic(s) selected from a group of polyamide(PA), polyester(PE), polyacetal(POM), polycarbonate(PC), polyethylene terephthalate(PET), polybutylene terephthalate(PBT), polysulfone(PSF), polyethersulfone(PES), polyphenylene ether(PPE), modified polyphenylene ether(Modified PPE), polyphenylene sulfide(PPS), polyarylate(PAR), polyether-etherketone(PEEK), polyamideimide(PAI), polyimide(PI), polyetherimide(PEI), polyaminobismaleimide, methylpentene copolymer(TPX), crystalline polyester, and stereoregular polyethylene.

Claim 3 (currently amended): An engineering plastic cardboard in accordance with Claim 1, wherein said core member is made into a complex shape by one or more of the processes selected from the group of vacuum forming, pressure forming, vacuum-pressure forming, press molding, and injection molding thermoplastic resin is of one or more kind(s) of thermoplastic resin(s) selected from a group of polystyrene, polyamide and polypropylene.

Claim 4 (previously presented): An engineering plastic cardboard in accordance with Claim 1, wherein said rubber like material is a styrenic elastomer.

Claim 5 (previously presented): An engineering plastic cardboard in accordance with

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Claim 1, wherein a compatibility aid agent is further added to said polymer alloy.

Claim 6 (previously presented): An engineering plastic cardboard in accordance with

Claim 1, wherein said core member is a corrugated sheet.

Claim 7 (previously presented): An engineering plastic cardboard in accordance with

Claim 1, wherein said core member is a honeycomb material.

Claim 8 (previously presented): An engineering plastic cardboard in accordance with

Claim 1, wherein said core member is a molded sheet forming a number of projections.

Claim 9 (previously presented): An engineering plastic cardboard in accordance with

Claim 1, wherein said core member has a honeycomb body having grid structure.

Claim 10 (previously presented): An engineering plastic cardboard in accordance

with Claim 1, wherein said covering member is a porous material.

Claim 11 (previously presented): An engineering plastic cardboard in accordance

with Claim 1, wherein said covering member is made of a heat resistant material.

Claim 12 (previously presented): An engineering plastic cardboard in accordance

with Claim 11, wherein said heat resistant material is a carbon fiber and/or aramid fiber.